200500069

No.

# THIR UNITED STRATES OF AMIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

THECE HAS BEEN PRESENTED TO THE

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW. THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HERS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC LEPTENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE CHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PRING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE. OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT ATTHE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'90M61'

In Testimonn Therest, I have hereunto set my hand and caused the seal of the Plant Insiety Frotestion Office to be affixed at the City of Washington, D.C. this fifteenth day of June, in the year two thousand and five.

Attest

Mah January
Acting Commissioner
Plant Variety Protection Office

Agricultural Marketing S

ocreway of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 1. NAME OF OWNER Pioneer Hi-Bred International, Inc. 3 VARIETY NAME 90M61 XB06H04 ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 7300 N. W. 62<sup>nd</sup> Avenue P.O. Box 1004 Johnston, IA 50131 TELEPHONE (include area code) FOR OFFICIAL USE ONLY 5. 515-254-2638 6. FAX (include area code) 515-253-2478 FILING DATE 1/18/2005 7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF 8. IF INCORPORATED, GIVE STATE OF INCORPORATION 9. DATE OF INCORPORATION ORGANIZATION (corporation, partnership, association, etc.) May 6, 1926 Corporate lowa FILING AND EXAMINATION FEES: NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Daria Schmidt, Ph. D. 7300 N.W. 62<sup>fd</sup> Avenue P.O. Box 1004 Johnston ,IA 50131-1004 Steve Callistein, Exq 7100 N.W 62<sup>nd</sup> Avenue P.O Box 1000 Johnston, IA 50131-1000 \$ 3,652.00 DATE 1/18/2005 CERTIFICATION FEE: TELEPHONE (Include area code) CROP KIND (Common Name FAX (Include area code) E-MAIL 515-254-2638 515-253-2478 daria.schmidt@pioneer.com Soybean 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on 19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF See Section 83(a) of the Plant Variety Protection Act) CERTIFIED SEED? YES (If "yes", answer items 20 and 21 below) X Exhibit A. Origin and Breeding History of the Variety X NO (If "no," go to item 22) X Exhibit B. Statement of Distinctness ☐ YES □ NO 20. DOES THE OWNER SPECIFY THAT SEED OF THIS X Exhibit C. Objective Description of Variety VARIETY BE LIMITED AS TO NUMBER OF CLASSES? IF YES, WHICH CLASSES? FOUNDATION REGISTERED CERTIFIED X Exhibit D. Additional Description of the Variety (Optional) X Exhibit E. Statement of the Basis of the Owner's Ownership 21. DOES THE OWNER SPECIFY THAT THE CLASSES BE X Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, LIMITED AS TO NUMBER OF GENERATIONS? YES NO verification that tissue culture will be depositied and maintained in an approved public IF YES, SPECIFY THE X Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office) FOLINDATION REGISTERED CERTIFIED NUMBER 1, 2, 3, etc. (If additional explanation is necessary, please use the space indicated on the reverse.) HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? OTHER COUNTRIES? □ x NO YES IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.) IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) 24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF OWNER SIGNATURE OF OWNER NAME (Please print or type) NAME (Please print or type) Daria H. Schmidt CAPACITY OR TITLE DATE CAPACITY OR TITLE DATE Director, Technology Integration and Associative Genetics

#### INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filling fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

#### ITEM

- 18a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filling a change of address. The fee for filling a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

### Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 90M61

Variety 90M61 evolved from a cross made in the winter of 1996/1997 in Chile with the following parentage:

9151/92B05\*

\*92B05 is a commercial variety with the Roundup Ready (40-3-2) gene

Variety 90M61 is an F4-derived line which was advanced to the F4 generation by modified single-seed descent. The F4 progeny row of 90M61 was grown in a plant row in the summer of 1999 in Minnesota. Subsequently, 90M61 has undergone five years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, Phytophthora resistance, and resistance to Roundup labeled herbicides, variety 90M61 was assigned a commercial number.

The purification block was grown during the summer of 2002 in Minnesota and 55 sublines were harvested. An approximately three (3) acre increase was grown in Chile in 2002/03. One hundred twenty-six acres of parent seedstock (foundation seed equivalent) was grown in the summer of 2003. Approximately one thousand eight hundred (1800) acres of parent seedstock and production seed were grown in the summer of 2004.

## **Exhibit B.** Statement of Distinctness

Soybean Variety 90M61

Variety 90M61 is most similar to variety 90B51. Both varieties have purple flowers, tawny pubescence, brown hila, and resistance to Roundup branded herbicides. However, 90M61 is resistance to Phytophthora megasperma as governed by the Rps1k gene whereas 90B51 is resistance to Phytophthora megasperma as governed by the Rps1c gene.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data ources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326 (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

	The state of the s		IPTION OF VAI		
NAME OF APPLICANT(S)		70 122.11 (00,00	(21) 11101	FOR OFFICIAL USE ONLY	
Pioneer Hi-Bred, International, Irc. (87:1/2  ADDRESS (Street and No. or R.F.D. No., City, State, ar				PAPO NUMBER	A & A
7300 N.W. (BT:1/3/2005)				200500	0 69
P.O Box 1004 Johnston, IA 50131-1004				VARIETY NAME	
Johnson, DA 30131-1004				90M61	
				TEMPORARY OR EXPERIME DESIGNATION	NTAL
				CX806H04> (BT:	2/22/2005
PLEASE READ ALL INSTRUCTIONS C	AREFULLY: Place	the appropriate nun	ber that describes th	e varietal character of this variety in the b	oxes below.
Place a zero in the first box (e.g. 9	9 9 0	or $\begin{bmatrix} 0 & 9 \end{bmatrix}$	when number is eit	her 99 or less or 9 or less respectively. Da	ta for
quantitative					
plant characters chould be based on a min	imum of 100 plants.	. Comparative data s	hould be determined	from varieties entered in the same trial. R	loyal
Horticulutral Society or any recognized co	lor standard may b	e used to determine p	lant colors; designat	system used:	•
Please answer all questions for your variet	y; lack of response	may delay progress o	f your application.		
A. MORPHOLOGY					
Seed Shape:			•		
2 1 = Spherical		2 = Sph	erical - Flattened		
(L/W, L/T, and T/W	ratios < 1.2)	(L/W ra	atio > 1.2; L/T ra	tio < 1.2)	
3 = Elongated			ngate - Flattened		
(L/T ratio . 1.2; T/W	ratio < 1.2)	(L/T ra	tio > 1.2;T/W rat	io > 1.2)	
Seed Coat Color:					
1 1 = Vellow	2 (	2 B	4 DI 1	5 00	
1 = Yellow	2 = Green	3 = Brown	4 = Black	5 = Other	
Seed Coat Luster:				(Please Specify	
1 = Dull	2 = Shiny				
Seed Size:					
15.6° . grams/100 seed	s		·		
Hilum Color:		•			
3 1 = Buff	2 = Yellow	3 = Brown	4 = Gray	5 = Imperfect Black	
6 = Black	7 = Other (Pl	ease Specify)			

## A. MORPHOLOGY (Continued)

**Cotyledon Color:** 

1

1 = Yellow

2 = Green

**Seed Protein Peroxidase Activity:** 

2

1 = Low

2 = High

**Hypocotyl Color:** 

3

1 = Green ('Evans' or 'Davis') 2 = Green with Bronze Bands below Cotyledons

('Woodworth' or 'Tracy')

3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71') 4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or

Leaflet Shape:

3

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

2

1 = White

2 = Purple

3 = White with a Purple Throat

**Pod Color:** 

2

1 = Tan

2 = Brown

3 =Black

**Pubescence Color:** 

2

1 = Gray

2 = Brown (Tawny)

3 =Light Tawny

**Plant Habit:** 

3

1 = Determinate

2 = Semi - Determinate

3 =Indeterminate

4 =Intermdeiate

**Maturity Group:** 

03

1 = 000

2 = 00

3 = 0

4 = I

5 = II

6 = III

11 = VIII

7 = IV12 = IX

8 = V13 = X 9 = VI14 = XI

10 = VII15 = XII

Maturity Subgroup:

6

Please enter a value from 0 - 9

**B. DISEASE REACTION** 

0 = Not Tested

1 = Susceptible 2 = Resistant

3 = Tolerant

**Bacterial** 

0

Bacterial Pustule (Xanthomonas campestri pv. glycines (Nakano) Dye)

1

Bacterial Blight Pseudomonas syringa pv. glycinea (Coerper) Young, Dye, and Wilkie)

0

Wildfire Blight Pseudomonas syringa pv. tabaci (Wolf\_Foster) Young, Dye, Wilkie)

3 = Tolerant

2 = Resistant

Fung	al								
1	Brown Spot (	Septor	ia glycinesHemn	ni)					
	Frogeye Leaf	Spot (	Cercospora sojin	<i>ia</i> Hara)	)				
0	race 1		0 race 2	;		0	race 3	0	race 4
0	race 5		0 race 6			0	Othe (Please Specify	)0	
0	Target Spot (C	Coryne	spora cassiicola	(Berk. (	Curt.) Wei)				
0	Downey Milder	w (Per	onospora trifolio	rum var.	manchurica (I	Naum.) l	Syd. ex Gäum)		•
0	Powdery Milde	w (Mi	crosphaera diffu	sa Cke.	and Pk.)				
0	Brown Stem Ro	ot (Ph	ialophora grega	ta (Allin	gton _Chambe	rlain) V	V. Gams.)		
0	Stem Canker (	Diapo	rthe phaseolorum	n (Cke.	and Ell.) Sacc.	var. cau	ulivora Athow and Ca	ldwell)	
1	Pod and Stem E	Blight	(Diaporthe pha	seolorum	(Cke. and Ell	l.) Sacc.	var. sojae (Lehman) V	Vehm.	
0	Purple Seed Sta	in (	Cercospora kiku	chii (T.	Matsu. and T	omoyası	u) Gardener)		
1	Rhizoctonia Ro	ot Rot	(Rhizoctonia s	olani Ki	ihn)				•
Phytop	ohthora Root Rot	(Phyto	phthora megasp	erma D	rechs. f. sp. <i>gl</i>	ycinea (	(Kuan Erwin))		
0	race 1	0	race 8	0	race 15		race 22		
0	race 2	0	race 9	0	race 16	(	race 23		
0	race 3	0	race 10	0	race 17	(	race 24		•
2	race 4	0	race 11	0	race 18	(	) race 25		
0	race 5	0	race 12	0	race 19	C	) race 26		
0	race 6	0	race 13	0	race20	C	Other (Please S	pecify)	
2	race 7	0	race 14	0	race 21		<u> </u>		
1	Bud Blight (Tob	acco F	Ringspot Virus)						
1	Vellow Mossic (	haan Y	Zallaw Masaia V	(ima)					

0 = Not Tested

1 = Susceptible

B. DISEASE REACTION (Continued)

B. DIS	EASE REACTIONS	(Continued) (	= Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
Funga	al					e Se
1	Cowpea Mosaic (Cow	pea Chlorotic Viru	ıs)			
1	Pod Mottle (Bean Pod	Mottle Virus)				
1	Seed Mottle (Soybean	Mosaic Virus)				
Nema	tode					·
Soybe	an Cyst Nematode (Hete	rodera glycines Icl	ninohe)			
0	race 1	race 4	0 race 9	)		
0	race 2	race 5	0 race 1	4		
0	race 3	race 6	() Other	(Please Specify)		
0	Lance Nematode (Ho	pploaimus columbu	s Sher)			
0	Southern Root Knot N	ematode ( <i>Meloido</i> )	gyne incognita	(Kofoid and White	e) Chitwo	
0	Northern Root Knot N	lematode ( <i>Meloido</i> )	gyne hapla Ch	itwood)		
0	Peanut Root Knot Nen	natode <i>(Meloidogy</i> i	ne arenaria (N	leal) Chitwood)		
0	Reniform Nematode (	Rotylenchus renifo	rmus Linwood	l and Olivera)		•
0	Javanese Nematode (A	Meloidogyne javani	ca (Treub) Cl	nitwood)		
0	Other Nematode (Ple	ase Specify) 0	·		,	
. PH	SIOLOGICAL RES	PONSES 0	= Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
0	Iron Chlorosis on Calc	areous Soil				
0	Phosphorus		0 0	ther <i>(Please Speci</i>	fy) 0	
0	Boron			•		
0	Aluminum					
0	Salt			·		
$\bigcap$	Drought					

D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
Fungal			•	
Mexican Bean Beetle (Epilachna va	rivestis Mulsant)			
O Potato Leaf Hopper (Empoasca faba	ue (Harris))			
Other (Please Specify)				
E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	-
0 Metribuzin	·			
O Bentazone				
1 Sulfonylurea				
2 Glyphosate				
0 Glufosinate	•			
O Pendimethalin				
Other (Please Specify)				
F. TRANSGENIC COMPOSITION				
Has the development of the subject variety include the removal of genetic material from the applicat	ded the insertion of tion variety?	genetic material fi	rom an organism o	other than a soybean, or,
If yes, please complete the following infomation r	equests*. Use add	itional pages if nec	essary.	
1. Please state the vector's name:	· .			
2. Please state the vector components:	•			
3. Please describe the genetic material successful	ly transferred into	the subject variety	<b>:</b>	
4. Please describe the insertion protocol:		-		
* A literature citation(s) explaining the four in "Transgenic Composition" portion of this form. the vector components and insert elements are su Development, Identification, and Characterization	This section is full mmarized in Figur	y addressed in the e 1 and Table 1 on	following publica page 1453. Padg	tion. Specific details of ette, S.R. et al.
G. BIOCHEMICAL MARKERS				
Please describe any biochemical information here Simple Sequences Repeats, Restriction Fragment	e, which you believe Length Polymorph	e will be helpful in usms, Isozymic Ch	further describing aracterization).	g the subject variety (e.g. Use additional pages if

necessary.

H. COMMENTS

## Exhibit D. Additional Description of the Variety

Soybean Variety 90M61

In Exhibit C we have identified variety 90M61 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 90M61 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 90M61 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 90M61 is a mid Group 0 variety. If Group 0 varieties are divided into tenths, the relative maturity of 90M61 is 0.6.

U.S. DEPARTMENT OF AGRICULTURE	ill reproductions.	FORM APPROVED - OMB No. 0581-005
AGRICULTURAL MARKETING SERVICE	The following statements are made 1974 (5 U.S.C. 552a) and the Paper	in accordance with the Privacy Act of Reduction Act (PRA) of 1995.
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de certificate is to be issued (7 U.S.C. 2 confidential until the certificate is iss	2421). The information is held
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	2. VARIETY NAME
Pioneer Hi-Bred International, Inc	OR EXPERIMENTAL NUMBER XB06H04	90M61
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7300 N.W. 62 <sup>nd</sup> Avenue P.O. Box 1004 Johnston, IA 50131-1004	515-254-2638	515-253-2478
Sumstan, IX 30101-100+	7. PVPO NUMBER	
	200	500069
8. Does the applicant own all rights to the variety? Mark an "X" in the lf no, please explain.	ne appropriate block.	X YES NO
ir no, piease explain.		X YES NO
		•
<ol><li>Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country</li></ol>	based company?	X YES NO
10. Is the applicant the original owner?	If no, please answer one of the fo	llowing:
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation	nal(s)?
YES NO If no, give name of count	try	
b. If the original rights to variety were owned by a company(ies	s), is (are) the original owner(s) a U.S. b	ased company?
YES NO If no, give name of count	try	
YES NO If no, give name of count  11. Additional explanation on ownership (If needed, use the reverse		
11. Additional explanation on ownership (If needed, use the reverse		
11. Additional explanation on ownership (If needed, use the reverse	for extra space):	
11. Additional explanation on ownership (If needed, use the reverse  Please Note:  Plant variety protection can only be afforded to the owners (not licer  1. If the rights to the variety are owned by the original breeder, that p	nsees) who meet the following criteria:	I of a UPOV member country, or
11. Additional explanation on ownership (If needed, use the reverse  Please Note:  Plant variety protection can only be afforded to the owners (not licer  1. If the rights to the variety are owned by the original breeder, that protection of a country which affords similar protection to nationals of	nsees) who meet the following criteria: Derson must be a U.S. national, national of the U.S. for the same genus and specially	I of a UPOV member country, or cies.
Please Note:  Plant variety protection can only be afforded to the owners (not licental formational of a country which affords similar protection to nationals of a UPOV member country, or owned by nationals of a	nsees) who meet the following criteria: Derson must be a U.S. national, national of the U.S. for the same genus and special operations of the original breeder(s), the comparison country which affords similar protection	I of a UPOV member country, or cies. ny must be U.S. based, owned by to nationals of the U.S. for the same

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer. ST-470-E (04-99) (Destroy previous editions).

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).